

# FUEL LINE

Winter 2002

Defense Energy Support Center

[www.desc.dla.mil](http://www.desc.dla.mil)

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# DIRECTOR'S MESSAGE



Jeffrey A. Jones, DESC Director

gone. But every year in DESC has a common theme—we did our job, accomplished the mission, and did it better than before. We made some improvements in how we do business.

In 2001, DESC essentially got approval to deploy FAS. Except for policy issues in the Pentagon about what constitutes “yes,” our FAS Program office, with huge contributions from across the CBUs and other DESC offices, has brought to the brink of life something that was almost declared dead 18 months ago. While a lot of work remains, everyone who has been part of the FAS team has a lot to be proud of!

## *Around the world quickly:*

With a major personal effort of DESC-Europe Commander, Colonel Steve Passero, we finally closed the Mannheim coal yard, which had been in continuous operation since World War II. DESC-Europe also managed to sell all the jet fuel remaining in Norway to their defense forces, eliminating a lot of dead stock. Passero and his staff worked hard with the Turks and Italians on improving fuel storage and gaining access to emergency fuel to support enroute airlift during the early phases of Operation Enduring Freedom.

After half a dozen budget amendments, four contracting cycles, the 9 month allergy season, and the end of the fiscal year, the calendar suddenly pushes us past Thanksgiving into December and the year is

DESC-Pacific scored big points in Alaska, with cleanup and conversion efforts at Whittier and Anchorage. Significant improvements in POL facilities on Oahu were started, including rerouting jet fuel lines out of environmentally sensitive areas. Our facilities in Korea and Japan have never been in better shape; and DESC-PAC commander, Captain Dave Douglas, has put a lot of personal time in on improving our future inventory posture in a number of locations, including Singapore.

DESC Americas commander, Colonel Dave Russell, had a tough but rewarding year, overseeing the reorganization of all four of the America's offices, with two closing and the Los Angeles and Houston offices picking up the workload. After a joint Americas-DESC staff study concluded two offices needed to be closed, the hard work was left to Dave and his staff. With help from Ft. Belvoir offices—particularly DESC-S, -B, and -R, the transition is proving one of the smoothest ever.

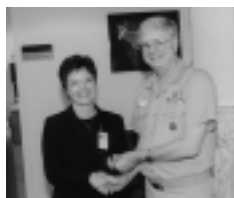
We capitalized retail fuel—a huge job that isn't over yet, but a first in DoD—the only business to have a single vertical system. We assumed the USAF's Missile Fuels operation with Sharon Murphy moving to San Antonio as its first DESC Director. Again, the DESC staff and the San Antonio staff worked with such professionalism, the transition was nearly invisible—most importantly, to the customers.

A lot more happened in 2001 than I can put into this column—weathering the California energy crisis, getting into conservation and utility outsourcing contracts. ***Operation Enduring Freedom*** with Lieutenant Colonel Ralph Wells and crew working 80 hour weeks alone deserves its own story. OEF has shown again that DESC is a truly world-class organization; doing things for the warfighter that no one else can do.

*Continued on page 30.....*

# C O N T E N T S

WINTER 2002



DESC Employee of the fourth quarter, Kathryn Fantasia, shakes hands with Vice Adm. Lippert as he makes his rounds visiting employees in the DESC. *page 10*



The 2002 Worldwide Energy Conference is coming April 29, 2002. *page 16*



Boeing X-37 in flight. See *page 17* for the inside information on the new DESC - Missile Fuels commodity business unit (CBU).

## On the Cover:

A DESC fueled Space Shuttle blasts off.

## NEWSMAKERS

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Defense Commendation and Defense Meritorious Service Medals awarded. Employees receive Productivity Excellence Award. Check recovered from DCIS investigative sting. Former DESC Commander inducted into DLA Hall of Fame. DLA honors two DESC employees with small business awards.

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### 14 Spirit and Giving

The tragedy of September 11th hit home to many across the country and the world. One DESC employee made a difference that catastrophic day by helping counsel Pentagon victims and their families at Inova Alexandria Hospital in Alexandria, Virginia.

### 16 DESC to host 2002 Worldwide Energy Conference

DESC will once again host the 2002 Worldwide Energy Conference in conjunction with the American Petroleum Institute (API), Edison Electric Institute (EEI), and the National Energy Service Companies (NAESCO). The date has been set to April 29 through May 2, 2002 at the Washington Hilton & Towers in Washington DC.

### 17 Inside the New Missile Fuels CBU

On October 1, 2001 the DESC assumed the Missile Fuels mission formerly performed by the Air Force Directorate of Aerospace Fuels Management. In this story we reveal information about the Missile Fuels CBU Divisions, products and programs, transportation and overall mission.

### 27 Supporting the Warfighter

DESC's Chief of Contingency Plans and Operations Division discusses how DESC has come together as a battlefield support organization to assist the warfighter in America's current anti-terrorism campaign, Operation Enduring Freedom.



Photo Courtesy of [www.defenselink.mil](http://www.defenselink.mil)

**Shown Above:** MH-53J Pave Low 16th Special Operations Wing refueling during Operation Enduring Freedom. Read how DESC has come together to support the warfighter. *Page 27*

## 28 Biodiesel Coming Soon

Biodiesel will soon be available at 17 government sites throughout the United States. Federal Government biodiesel users will take part in the program that has procured approximately 1.5 million gallons of B20 fuel.

## 29 A New Era

DESC-Houston rebuilds and reorganizes after Tropical Storm Allison caused severe flood damage to the building during the process of remodeling in June 2001.

### FUEL LINE

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Defense Energy Support Center  
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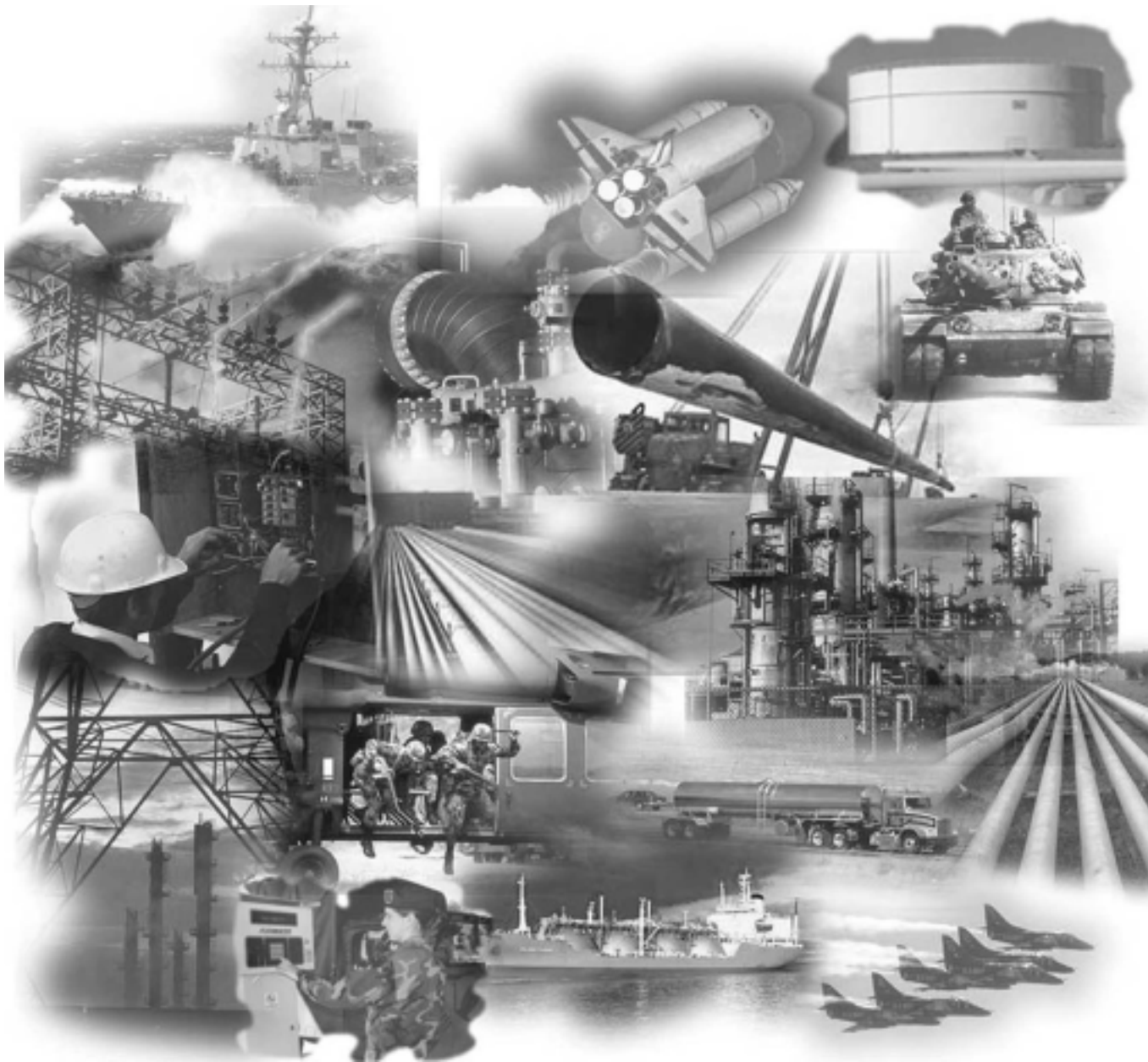
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**2002**

# **Worldwide Energy Conference**

April 29 - May 2, 2002  
The Washington Hilton & Towers  
Washington, DC



***PARTNERING FOR TOTAL ENERGY SOLUTIONS***

*Presented By*

*The Defense Energy Support Center (DESC), American Petroleum Institute (API), Edison Electric Institute (EEI)  
and the National Energy Service Companies (NAESCO)*

# Registration Form

## 2002 Worldwide Energy Conference

### *PARTNERING FOR TOTAL ENERGY SOLUTIONS*

**Conference Role:** (Circle One)      Speaker      Presentor      Exhibitor      Attendee

\_\_\_\_\_ (Mr., Ms., Dr., Lt., etc.)  
**Title:**      **First Name:**      **Middle Initial:**      **Last Name:**

\_\_\_\_\_  
**Job Title:**

\_\_\_\_\_  
**Company /Organization:**

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**Daytime Telephone Number**

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**E-Mail Address**

**I am interested in the following:**

- ☐ Petroleum
- ☐ Installation Energy
- ☐ Environmental
- ☐ Facilities

**Please submit all registration forms by:**

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**To register online or for more information visit our website at [www.desc.dla.mil](http://www.desc.dla.mil)**

# NEWSMAKERS

## AWARDS



**Shown in photo (left to right):** Capt. S.D. Funk, SC, USN and Capt. Thomas D. Madison, SC, USNR

On September 19, 2001 DESC Deputy Director, U.S. Navy Captain S.D. Funk, SC, awarded the Defense Meritorious Service Medal to U.S. Navy Reserve Captain Thomas D. Madison, SC, for outstanding performance of duty from October 1999 to September 2001.



**Shown in photo (left to right):** Master Sgt. Edward T. Lisowski and Lt. Col. Coan

Commander of DESC-Houston, U.S. Army Lt. Col. Coan, awarded the Defense Commendation Medal to U.S. Army Master Sgt., Edward T. Lisowski for his work on June 9th, 2001 during the tropical storm Allison flood recovery at DESC-Houston.



Pictured to the left is DESC San Antonio's new "Chili Queen" - Gayle Wadsworth, DESC Missile Fuels, Support Division Chief. Gayle won the Chili Contest which was held December 5, 2001 to raise money for the Missile Fuels Christmas Party. She had some intense competition, to include a batch made with wild hog!



**Shown in photo (left to right):** Mr. Ted Munns, DESC Contracting Officer, Ms. Diane Schmidt, DESC Contract Specialist, Ms. Deborah Van Kleef, DESC Division Chief and Mr. Jeffrey Jones, DESC Director

Three employees from the Direct Delivery Fuels, Specialty Fuels Division, working on the Aviation Into-plane Reimbursement (AIR) Card Program recently received the Secretary of Defense Productivity Excellence Award for 2001. They received the team award for their combined contributions to the AIR Card Program, which since 1997 has provided over \$13.6M in cost savings directly to DESC customers.



**Shown in photo (left to right):** U.S. Air Force Lt. Col. Charles Gross, DESC Deputy Director, Facilities Management and Special Agent Jim Trost, DCIS

Special Agent Jim Trost, Defense Criminal Investigative Service (DCIS), presented a check to U.S. Air Force Lt. Col. Charles Gross, DESC Deputy Director, Facilities Management, to reimburse DESC for fuel used in a 1996 sting operation.

At the time of the sting operation, Lt. Col. Gross served as the Commander, DESC-LA. DESC-LA personnel detected the theft of fuel from the Defense Fuel Support Point (DFSP) San Pedro by truck drivers who delivered fuel to DESC customers. Under the scam, drivers would advise DFSP San Pedro that they were picking up loads of fuel for DESC customers. However, the drivers delivered the fuel

to commercial gas stations participating in a excise tax evasion scheme run by two Russian organized crime families. The Russians paid the Assistant Terminal Superintendent, who at the time was a DFSP San Pedro contractor employee, to create false delivery orders and Government bills of lading to conceal the thefts. DESC's detection and participation in the sting operation was instrumental in apprehending the crooks who stole the fuel and pocketed the excise tax which the service stations participating in the fuel excise tax scam charged commercial customers.



## Two DESC Employees Honored at DLA Small Business Awards Ceremony



**Shown Above (left to right):** U.S. Navy Vice Adm. Lippert, DLA Director, congratulates Kathy Williams, DESC Associate Director of Small Business.



**Shown Above (left to right):** U.S. Navy Vice Adm. Lippert, DLA Director, congratulates DESC Natural Gas Division Chief, Pamela Griffith.

On November 28, 2001, DESC employees Kathy Williams and Pamela Griffith were honored at the Defense Logistics Agency (DLA) Small Business Awards Ceremony held at McNamara Headquarters in Ft. Belvoir, Virginia.

Williams was selected to receive the 2000 DLA Award for Professionalism in the Small Business Program. She has been the Associate Director of Small Business since May 1988. While at DESC she has developed the agency's first Electronic Subcontracting Management System. The system reduces all paperwork processes to an electronic system accessed by DESC personnel, the prime contractor, Defense Contract Management Agency (DCMA) personnel and the Small Business Administration personnel.

Williams has also designed, orchestrated and managed the development of the DESC Outreach Program, which identifies those groups of companies needing increased participation in DESC acquisitions.

Griffith was selected to receive the 2000 DLA Award for Excellence in Assisting Women-Owned Small Business. As the Chief of the DESC Natural Gas Division she successfully assisted Tiger Natural Gas (Tiger) in increasing their customer base from 1 to 10 customers, which represented over a 1,200 percent increase in total natural gas supply under their contract. Tiger has provided a unique and cost-effective solution that netted over \$74,000 in savings.

## DESC- Pacific Employees Recognized by DLA

Jack Appolloni and U.S. Army Master Sergeant, Scott Marcinkowski received the Outstanding Defense Logistics Agency (DLA) Personnel of the Year awards during the DLA 34th Annual Recognition Ceremony on December 11, 2001 at the DLA Headquarters, Ft. Belvoir, Virginia. They were recognized for their selfless service and dedication to customers in the Alaskan area of responsibility as well as their outstanding contributions to DESC.

## Former DESC Commander Inducted into DLA Hall of Fame



Brigadier General James E. Bickford, United States Army, retired, was recently inducted into the Defense Logistics Agency (DLA) Hall of Fame on November 15, 2001. General Bickford served as the DESC Commander from September 1987 to May 1991. During this period, General Bickford established and maintained the highest possible standards in providing quality petroleum products and improved worldwide responsiveness to military services.

General Bickford established an effective and efficient organization that quickly responded to all global contingencies while simultaneously maintaining support to other customers. He solidified DESC's reputation as the leading petroleum expert in the Department of Defense, achieving marked improvements in fuel availability, contract management, quality control, and business relationships with the petroleum industry.

As a result of General Bickford's command wide emphasis on operational readiness, DESC began to continually monitor the status of worldwide fuel inventories and implemented contingency drills and exercises to analyze system weaknesses and potential war stoppers.

Under General Bickford's leadership, DESC provided unparalleled fuels support to all U.S. and Coalition forces during Operations DESERT SHIELD and DESERT STORM.

General Bickford orchestrated global assets by providing unprecedented quantities of petroleum products in support of the critical deployment of over 500,000 personnel, 1,300 air-

craft, 100 ships and tens of thousands of armor, artillery and tactical vehicles from continental United States and Central Europe bases. The Herculean effort provided by DESC successfully sustained the largest Department of Defense demand for fuel since World War II ensuring total victory. By his exemplary performance of duty, General Bickford brought great credit to the Defense Logistics Agency and the Department of Defense, culminating in the receipt of the Joint Meritorious Unit Award.

Prior to his tenure as commander of DESC, General Bickford was assigned as Chief, Plans and Programs Division, and later, Director, Supply Operations Directorate. Major accomplishments during this time period (July 1979 - July 1981) include establishing the DESC Emergency Operations Center (EOC) as the single point for response to fuel emergencies. General Bickford spent extensive time working with the DESC commander and with Congressional staffers as well as testifying on fuel availability and war reserves. His efforts resulted in increased war reserve stocks and better fuel availability due to streamlined contracting procedures.

# EVENTS

## Vice Admiral Lippert's Visit to DESC

In August 2001, U.S. Navy Vice Admiral Keith W. Lippert, SC, Director of the Defense Logistics Agency, took time from his busy schedule to visit all of the employees in DESC's Commodity Business Unit's (CBU's) and thank them for a job well done!



**Shown Above:** Contract Specialists in Privatization, in the CBU Energy Enterprise Office, DESC-EPP, are happy to pose with Vice Adm. Lippert!

**(Left to Right)** Sherry Anderson, Mary Jo Fehr, Vice Adm. Lippert, Benita Jackson and Terri Ann Workman.



**Shown Above:** Vice Adm. Lippert in hallway discussion with DESC's (left to right) Col. Jack Vance, USA, Deputy Director of Operations and Jeffrey Jones, DESC Director.



**Shown Above:** Vice Adm. Lippert gives a coin to Employee of the fourth quarter FY01, Kathryn Fantasia, DESC Contracting Officer, Specialty Fuels Division, Direct Delivery Fuels CBU.



**Shown Above:** As DESC employees look on, Vice Adm. Lippert hands a coin to Beth Morgan, FII.

## Halloween Costume Contest

October 31, 2001



The crowd of onlookers watch as DESC employees parade through the hallways in the costume contest!

This Halloween all of the ghosts and goblins from DESC came out to participate in the Annual Halloween Costume Contest and fund-raiser. This years festivities kicked off with a bake sale featuring a delicious array of goodies and a pie contest. Proceeds from the event were contributed to the 2001 Holiday Festival on December 19th at the Springfield Hilton. The celebration ended with a colorful Halloween parade and costume contest. The halls of McNamara Headquarters were filled with onlookers as employees paraded around in their costume of choice. Overall everyone had a frightful good time!



Spirited DESC employees show their creativity in the costume parade and contest.



Pie Contest Winners (Left to right) Larry Long (NAVPET) and Sherry Winkler (NAVPET) won gift certificates to Red, Hot and Blue for their award winning apple pies.



DESC Employee, Leslie Packard proudly displays her first place carved pumpkin.



Wonder Woman (aka) Joni Brickhall, DESC-A, won first place in the costume contest. Shown here she is energizing the crowd with patriotic spirit!

## Celebrating the Season!!



Navy Band entertains DESC employees at the 2001 Holiday Festival.

DESC employees gathered on December 19, 2001 to celebrate in Holiday Festivities at the Springfield Hilton. A delectable buffet was served featuring Roasted turkey with giblet dressing and London broil with sherry mushroom sauce. Employees danced the afternoon away to the sounds of the Navy band. Prizes such as a DVD player and 13- inch television were raffled off throughout the day.



DESC Employee, Mike Earp, celebrates as he opens his brand new VCR.



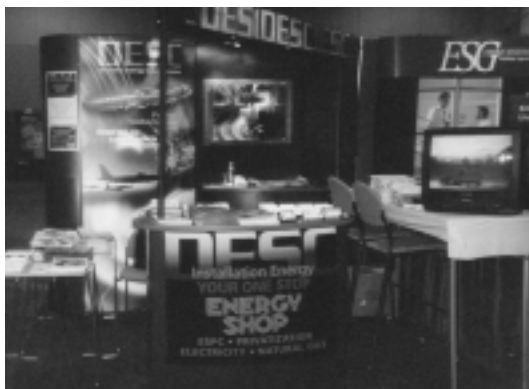
Dancing the afternoon away at the Holiday celebration!



Enjoying in the festivities, this group of DESC employees take time out to smile for the camera.



## DESC Energy Conservation Team Participates in World Energy Engineering Congress



**Shown Above:** DESC's booth at the 24th Annual Association of Energy Engineer's World Energy Engineering Congress Conference

On October 24-26, 2001 representatives from the Defense Energy Support Center (DESC) Energy Enterprise Office Energy Conservation Team attended the 24th annual Association of Energy Engineer's World Energy Engineering Congress Conference held in Atlanta, Georgia. The Conference, which consists of over 200 exhibits, provides both Government and private sector energy professionals with information regarding the latest market trends, new energy efficiency equipment options, energy policy and regulation updates, and new ways of doing business for energy efficiency and facility management improvement. The Energy Enterprise office Contracting Division Chief represented DESC in a panel discussion on Energy Policy Initiatives in the Federal Government.

DESC's exhibit emphasized the Energy Enterprise Office and the Installation Energy CBU's Energy Programs, e.g. Energy Savings Performance Contracting (ESPC) and contracting support for the Department of Defense (DoD) Privatization of Utility Systems, and the Natural Gas Program (including a small information brochure on Compressed Natural Gas fueling stations for DoD installations), Coal Procurement and Electricity Procurement Programs for the Installation Energy Commodity Business Unit.



If you would like to submit a photo and caption to the Newsmakers or Events section of Fuel Line please send a photo along with a brief caption and contact information to Defense Energy Support Center, Melissa Lenard, Fuel Line Editor, 8725 John J. Kingman Road, Suite 4950, Fort Belvoir, VA 22060-6222 or e-mail , [mlenard@desc.dla.mil](mailto:mlenard@desc.dla.mil)



By Melissa Lenard

# SPIRIT AND GIVING



**How DESC employee Iris Fetgatter responded to the spiritual needs of victims and their families after the Pentagon was struck in the Attack Against America on September 11th**

## The Attack

America watched in horror as one of the worst terrorist attacks to date unfolded. On September 11, 2001 at 8:45 a.m. Eastern Standard time a hijacked passenger jet, American Airlines Flight 11 out of Boston, Massachusetts, crashed into the north tower of the World Trade Center, tearing a gaping hole in the building and setting it afire. Soon after that at approximately 9:03 a.m. a second hijacked airliner, United Airlines Flight 175 from Boston, Massachusetts, crashed into the South Tower of the World Trade Center causing it to explode. The next forty minutes were pure chaos. Questions began looming about, was this an accident, or was this an act of terrorists? Was this going to happen somewhere else? No one knew for sure but people began running through the streets of New York City trying to find a safe place to escape.



Plane hits WTC

(COURTESY: WREB)

At 9:40 a.m. the Federal Aviation Administration shut down all flight operations at U.S. airports when suddenly at 9:43 a.m. American Airlines Flight 77 crashed into the Pentagon sending up a huge plume of smoke. The White House and Pentagon were immediately evacuated and panic was on the rise, what was to happen next? At 10:05 a.m. the South Tower of the World Trade Center collapsed plummeting into the streets below. Five minutes later a portion of the Pentagon collapsed as another hijacked plane, United Airlines Flight 93 crashed into a field in Somerset County, Pennsylvania. The devastation of these events were tremendous but the spirit of all Americans showed as many came out as soon as this tragedy occurred to help in any way possible. One of these people was DESC - Ft. Belvoir's own, Iris Fetgatter.



Pentagon Burns

(AP PHOTO)

## The Spirit

Iris Fetgatter, a contract specialist at DESC Ft. Belvoir, Virginia watched the television in her office as the events of September 11th unfolded. "After learning that the Pentagon had been attacked I was ready to help."

Aside from being a contract specialist Iris is a pastoral care counselor at Inova Alexandria Hospital in Alexandria, Virginia. She participates as part of a response team when a code yellow emergency is called. She is trained in helping victims of mass casualty get in touch with family members and loved ones. She also assists them in prayer. "I am what you would call a jack of all trades. I minister to people who are in need of help, comfort and understanding."

When Iris arrived at the hospital victims from the Pentagon attack began to come in. "As the victims entered the hospital I immediately began assisting them. I said a prayer with several and did everything I could possibly do. At that point most of them wanted their families to know that they were ok."

In a normal month Iris volunteers 24 hours of her time to the hospital however, on this day, she was willing to stay as long as it took. "I just wanted to be there and do my part as many others wanted to do." Iris recalled, "I couldn't believe the overwhelming number of people lining up outside the doors of the hospital to give blood. There were so many people we had to turn some away, it was a truly touching sight."

Later that afternoon, as things began to become orderly and many of the families were connected with their loved ones, Iris waited quietly for anyone who wanted a few words of prayer.

"I wanted to make sure that I was doing my part by staying alert and on call to anyone who needed some guidance." She eventually went home feeling that she had made a difference and continues to remain "on call" for anyone who might need some healing words. "It's going to take a while for all of

the victims and their families as well as the survivors to recover but, many people can do their part just by being there for them. Sometimes all they need to know is that they have someone they can talk to and share their feelings with."

Iris is unpretentious when being credited for her help with the victims of the Pentagon attack. "It's my job and I love it, I enjoy renewing the hope and faith of people in need." With her help she kept many families spirits alive after such devastation.

Iris began pastoral care counseling 4 years ago after the pastor of her church recommended her to enter the program.

## After the Attack

The events of September 11th still weigh heavily on many minds across the country and the world. Ordinary citizens continue to raise funds and donate time to help the families who suffered from that tragic date. Iris plans to continue pastoral care counseling at Alexandria Hospital. "I will continue to pray for the victims and their families and keep giving others the spirit of prayer as long as I am able to."

We are grateful that we have employees like Iris Fetgatter who take time from their own busy schedules to work with others in some way.

*"I couldn't believe the overwhelming number of people lining up outside the doors of the hospital to give blood. There were so many people we had to turn some away, it was a truly touching sight."*

# COMING SOON!!!

## DESC to host the 2002 Worldwide Energy Conference

The date has been set, and the plans have been made. Defense Energy Support Center (DESC) along with American Petroleum Institute (API), Edison Electric Institute (EEI) and the National Energy Service Companies (NAESCO) will co-sponsor the 2002 Worldwide Energy Conference set to take place April 29 through May 2, 2002 at The Washington Hilton and Towers in Washington DC.

The theme for 2002 is *Total Energy Solutions* and will feature over 100 exhibitors displaying state-of-the-art energy products and services. In addition, over 750 Army, Navy, Marine



Core, Air Force, Coast Guard and other Federal organizations will be represented. An aggressive agenda has been planned featuring over 50 educational workshops and panel discussions. Topics will feature major energy issues including new energy choices and new energy challenges...just to name a few.

An exciting and productive conference has been planned to help conferees tackle tough issues, learn realistic solutions to problems and share energy information among colleagues.

Registration forms are available in this issue of Fuel Line or by going on the web at [www.desc.dla.mil](http://www.desc.dla.mil).

### *Conference Highlights:*

- n 100 exhibitors displaying state-of-the-art energy products and services
- n Over 750 Army, Navy, Marine, Air Force, Coast Guard and Federal organizations represented
- n Over 50 educational workshops and panel discussions covering major energy issues, new choices and new challenges

# DESC ASSUMES NEW MISSION



## **Insider information on the new DESC Missile Fuels Commodity Business Unit in San Antonio, Texas**

**O**n October 1, 2001 the Defense Energy Support Center (DESC) assumed the Missile Fuels mission formerly performed by the Air Force Directorate of Aerospace Fuels Management. The formal transition ceremony was to be a high level ceremony, bringing together high ranking military and civilian leaders from both the Air Force and DESC. However, after the tragic events of September 11th the “large scale ceremony” was scaled down to an “in-house observance”. Despite the change in agenda, everyone in the Missile Fuels Commodity Business Unit (CBU) was ready to come aboard bringing unique resources to DESC in support of Missile Fuels management.

### [The History](#)

DESC has taken over a long-standing U.S. Air Force mission. The Missile Fuels mission began in the early 1950's at Olmstead Air Force Base (AFB), Pennsylvania and moved to Kelly AFB, Texas in August 1966. The mission has always been the same: providing worldwide logistics support of chemicals, gases, special fuels, missile propellants and cryogenic fluids to the federal government including the Department of Defense, National Aeronautics and Space

Administration and the Department of Energy; defense contractors such as Boeing Aerospace and Lockheed Martin as well as colleges and universities including Dartmouth College, the University of Utah and the University of Wisconsin. As a result of a business case recommendation in 1997, DESC's newest CBU and support offices will remain in San Antonio, Texas on Kelly AFB in a building that has been annexed by Lackland AFB.

### [Inside the Missile Fuel CBU](#)

Mrs. Sharon Murphy, is the new Missile Fuels CBU Director. Mrs. Murphy was the previous DESC Director of the Installation Energy and Energy Enterprise Office in Ft. Belvoir, Virginia. She was instrumental in creating the “One Stop Energy Shop” for electricity and natural gas acquisition and utility privatizations, as well as developing an energy savings performance based contracting program. Her mission has changed, but not her enthusiasm, innovative ideas and ability to think outside the box. Her vision is to provide world-class support and total business solutions to customers as the Integrated Materiel Manager for Missile Fuels. Supporting Ms. Murphy in the Missile Fuels mission are two divisions, Logistics Management and Contracting.



## *Missile Fuels Mission Statement*

One Team...One Focus  
Right Item, Right Time, Right Place, Right Price  
Every Time



**Shown Above:** Sharon Murphy, Missile Fuels Director, welcomes the audience to the DESC family at the induction ceremony held October 1, 2001.



**Shown Above:** Sharon Murphy, Missile Fuels Director, (left) and Tina Maldonado, Missile Fuels Administrative Assistant, (right) cut the cake at the induction ceremony held at the San Antonio site on October 1, 2001.



**Shown Above:** Waiting for cake!! DESC employees (front to back) Mario Pastrano, Pete Perez, Chris Gill, Jerry Guzman and Marvin Davis wait in line to receive cake and punch at the induction ceremony.

# Missile Fuels Commodity Business Unit

## DESC-MI

DESC-MI is the Logistics Management Division. There are two branches within the division: The Requirements branch (MIC) and the Materiel Support Branch (MIP). Combined, they provide worldwide inventory management, traffic management and equipment and container management for commodities such as, hydrazine, dinitrogen tetroxide, liquid and gaseous nitrogen and oxygen for programs such as the Space Shuttle, Titan and Delta missiles and commercial satellites. In addition, they provide special fuels such as JP-10 for cruise missiles; and specialty gases such as hydrogen peroxide, argon, fluorine, deuterium, helium, neon and xenon that support programs like the AIM-9 and Stinger missiles and the Aerostat, High Altitude Simulation and Tactical High Energy Laser (THEL) programs. All of the commodities managed by the Missile Fuels CBU are classified as hazardous materials, many with volatile characteristics. Packaging and transportation of each commodity must be in strict compliance with federal and state regulations.

## DESC-MK

DESC-MK is the Contracting Division. Contracting is an integral part of the CBU team providing "cradle to grave" support to inventory managers, transportation specialist and resource managers in acquisition planning. The creative thinkers in the Contracting Division determine the best methods for procuring requirements of both products and services managed by the CBU. Most requirements are awarded on a competitive basis



**Shown Above:** Exterior of the Missile Fuels CBU in San Antonio Texas.

through negotiations, including use of source selection and two-step acquisition procedures; however, it is not unusual for innovators to negotiate multimillion dollar non-competitive purchases. The majority of contract awards are multiple year, indefinite delivery, requirements type contracts that can provide long-term coverage and extensive flexibility in meeting unique customer needs.

In addition to the CBU, two support offices are also located with the CBU in San Antonio.

## DESC-ST

DESC-ST is the newest addition to the FAS PMO, as well as continuing to provide support functions for the information systems of DESC-San Antonio, specifically DO-22D. DESC-ST manages testing, documentation and computer support issues as well as systems development processes, throughout the enterprise and under the direction of the FAS PM. Support functions consist of desktop computer maintenance and deployment, network infrastructure administration and design, and systems access management.

## DESC-RR

DESC-RR, which reports directly to the DESC-R Director, is the Retail Management Division. They provide financial and program support for worldwide retail aviation fuels, ground fuels, as well as support to the Missile Fuels requirements. The division is composed of the Financial Support Branch (RRF) and the Program Support Branch (RRP).

## DESC-MI Logistics Management Division



(Left to Right)

Back Left Row: Gerard Guzman, Evelyn Salisbury, Elena Barron; Raymond H. Roelf Jr., Chief Logistics Management Division; Jose Reyes, Roman Rodriguez, Sharon Fajkus, Mike Miller

Back Right Row: Charlene Smoot, Chris Morales, Pete Perez, Patricia Barrios, Ida Elizondo, Ronald Umburn, Mary Helen Martinez, Beatriz Hernandez, Mario Pastrano, Terry Garcia, Leticia Morales.

Front Row: Janie Gallegos, Catherine Mokry, Gene Ramirez, Melanie Mueller, Robyn Faifer, Mike Mazur, Anthony De La Rosa, Ernest Reyes.

Not Pictured: Theresa Soberoski and Isabel Zamora.

## DESC-MK Contracting Division



(Left to Right)

Back Row: Robert Mayfield, Larry A. Brehm, Cheif, Contracting Division; Ellen Shannon, Sylvia Urias, Manuel Barrera, David Llanes

Front Row: Yolanda Sosa, Barbara Blackshere, Gary MacLane

## DESC-RR Retail Management Division



(Left to Right)

Back Row: Robert Fruth, John Briggs, Rodney Sheetz, Kathy Menchaca, Tom Blann, Charles D. McWilliams, Alvin Morgan, Heather Huhn, Ronald Van Dyke, Kay Kimbrough, Samuel Valdez

Middle Row: Miguel Puga, Mary Ann Schwartz, George Willis, Patricia Canales, Mary Gargiulo, Raymond Gallegos, Marvin Davis, Gloria Larque, Bea Magallanez, Donna Durham, Virginia Marsalis, Carolyn Hill

Front Row: Olga Hernandez-Fuentes, David Lawson; Richard E. Gohn, Retail Management Division; Olga Lopez, Rose Mary Hernandez, Mary Ann Villanueva, Lupe Padilla.

## DESC-ST Missile Fuels Support Division



(Left to Right)

Left side: Usha Govindaraju, Kent Loessberg; Gayle P. Wadsworth, Cheif Missile Fuels Support Division; Vijaya Gosala, Al Michalec, Christopher Netz, Robert Smith

Right side: Carlos Ruiz, Don Schieffer, Christopher Gill, DiAnne Garza, Thomas Wright, Stephanie Needham, Kenneth Ryan, TSgt Morris Edwards.

# Missile Fuels Products and Programs

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## Fuels, Pressurants and Coolants

The products that the Missile Fuels CBU manages are used as fuels, pressurants or coolants. Support in all phases of the individual customer programs is essential. This is apparent in the case of Missile Fuels, where the lack of fuel would prevent a space launch from occurring. Failure to support pressurants or coolants, as specified, can lead to property losses due to corrosion or heat damage as well as prevent mission accomplishment. Pressurants and cryogenic coolants are used for leak detection, creation of inert atmosphere and enhancing sensitivity of infrared sensing equipment, considered critical for nuclear weapons development, testing of space detection devices and high quality welding of crucial parts for weapons systems.

## Chemical Formulas and Propellants

Each product is essentially a chemical formula. Each has unique physical properties. This fact means that each product must have a logistic support plan unique unto itself. Far from being standard, these plans are totally different in orientation. For example, both liquid oxygen and dinitrogen tetroxide are oxidizers commonly used in liquid propellant missile engines. Liquid oxygen is a nontoxic cryogen. Due to its very low temperature (-297.3 degrees Fahrenheit), approximately 10% of the product is lost through evaporation each day. This evaporation leads to pressure buildup in liquid oxygen storage vessels that must be relieved through periodic atmosphere venting. The only way to support these products is to maintain multiple qualified sources of supply, which can produce liquid oxygen and transport it to the user within hours of the user utilizing it. Dinitrogen tetroxide is highly toxic to personnel and the environment but can be stored for long periods of times. As a result, it is only economical to maintain a single source for this product.

Dinitrogen tetroxide requirements can only be supported through advance planning, synchronized production schedules and storage.

One category of propellants is known as the hypergols. These are all toxic, inhalation hazards, poisons, carcinogenic, and in all ways dangerous to humans and the environment unless closely and properly controlled. Propellants are categorized as either a fuel or an oxidizer. Together they provide propulsion without the need for an injection system. All of them are products of the chemical industry, as opposed to the petroleum industry. Other than their liquid form and combustibility, there is no similarity to petroleum products.

Although hypergols are used in relatively large quantities for any given launch, there is not sufficient launch activity to keep a production plant in full operation. Typically, the production plant is brought into operation once or twice a year to produce a quantity of propellants; then shut down until the next production run.

## Requirements

Requirements for products are derived from mission assignments, such as missile launches, which are rare when compared to missions involving airplane flights, and use relatively small amounts of products. In addition, the actual accomplishment of the assigned missions has historically varied erratically by months, and even years from projections. These variances tend to occur with short notice and without warning. This means that statistical forecasts for requirements are invalid due to too small populations and lack of present correlations with past events. The inability to rely on statistical forecasts mandates intensive oversight management of the requirements in order to prevent losses of nonsupport due to insufficient inventory, and to react to changing situations.



## CHEMICALS AND GASES

### Chemicals and Gases

**Ar - Argon**  
**D2 - Deuterium**  
**GF2- Flourine**  
**He - Helium**  
**IPA - Isopropyl Alcohol**  
**IRFNA - Inhibited Red Fuming Acid**  
**JP10 - Propellant**

**KR - Krypton**  
**Ne - Neon**  
**NF3 - Nitrogen Trifluoride**  
**PF1 - Priming Fluid**  
**RP1 - Kerosene**  
**Xe - Xenon**  
**H2O2 - Hydrogen Peroxide**

### Programs and Applications

**AIM - 9**  
**Shuttle**  
**THEL Program**  
**Aerostat**  
**Stinger Missile**  
**Delta Launch**

**Super Conductor Magnets**  
**National Aerospace Plane (NASP)**  
**High Altitude Simulation (SSME)**  
**Cruise Missile**  
**MIRCL Laser**  
**EXIMER Laser**



**Shown Above:** Missile Fuels high purity Isopropyl Alcohol is used as a fuel in NASA's steam generators. Burned with Liquid Oxygen, they create a high altitude simulation for testing the Space Shuttle Main Engines.



**Shown Above:** Missile Fuels high pressure Argon gas is used as the coolant within the AIM 9 and Stinger Missile Systems. Pictured here is the Stinger Tracking Head Trainer which allows troops the opportunity of hands on targeting practice



# MISSILE PROPELLENTS AND CRYOGENIC FLUIDS

## Cryogenic Fluids

**Liquid Air**  
**LN 2 - Liquid Nitrogen**  
**LO2 - Liquid Oxygen**

## Gases

**GH2 - Gaseous Hydrogen**  
**GN2 - Gaseous Nitrogen**

## Hypergols

**A - 50 - Hydrazine/AH/UDMH Mix**  
**AH - Hydrazine/Anhydrous**  
**H - 70 - Hydrazine/Water**  
**MMH - Monomethylhydrazine**  
**MPH - Hydrazine Monopropellant**  
**UDMH - Unsymmetrical - Dimethylhydrazine**

## Programs and Applications

**Shuttle**  
**THAAD Program**  
**Titan II, III & IV**  
**Delta**  
**Satellites**  
**Peacekeeper**  
**Supplement Atmospheric Oxygen**

## **DELTA**



## **TITAN IV**

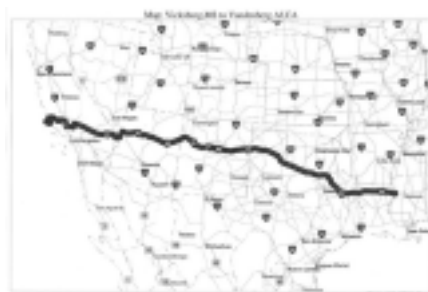


## Missile Fuels Transportation

The Missile Fuels Transportation Office has one of the most challenging and unique jobs within the Department of Defense. Challenging, because everything transported is a hazardous material. This requires an astute knowledge of current federal, state and local hazardous materials regulations. Efforts in the area of emergency response planning, emergency response exercises, route risk assessment and satellite tracking, have other organizations seeking the CBU's expertise to resolve or provide some of their unusual transportation dilemmas. The CBU takes pride in bridging the transportation of hazardous materials around the world.



As a result of the mission transfer, DESC took responsibility for over 14,000 pieces of equipment including drums, cylinders, tank trucks, bulk fuel containers and rail tank cars. Transportation personnel develop transportation routes by performing route risk assessment for highway and rail shipments using a state-of-the-art computer software program that determines the risks of an accident and exposure to leaks using a data base of accident rate, population statistics and a mapping system.

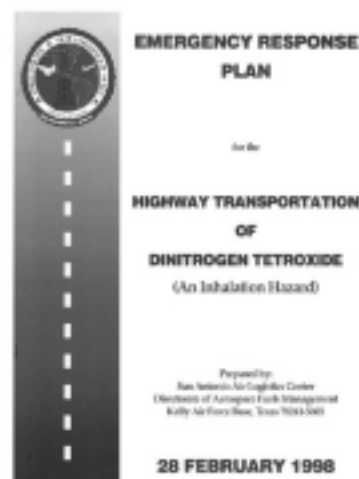


Traffic managers, through their knowledge of federal, state and local regulations, publications and periodicals, proposed and pending legislation influencing the transportation of hazardous materials reinforce the computer-generate route.

The CBU has an emergency response plan, which is accepted and approved by the Department of Transportation. This requires familiarization with the regulations and protocol for notification and response both in the government and private sectors.

A knowledge base of the Comprehensive Environmental Response and Liability Act, the Superfund Amendments and Reauthorization Act of 1986, the National Contingency Plan, and the Emergency Planning and

Community right to know act of 1986, just to name a few, is required to insure the technical accuracy of the plans. The plans provide the guidelines for the military services' response to transportation emergencies. When an incident/accident occurs, each responder needs to know precisely what is expected of them. Numerous tasks must be performed by many different organizations in a short period of time. The purpose of the plan is to ensure each of the organizations carry out pre-identified functions in a coordinated manner, commiserate with the emergency situation.



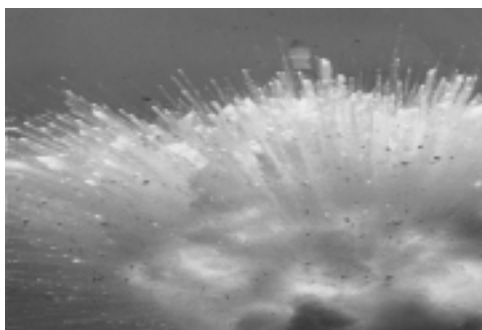
## Features

Exercises are conducted to test the effectiveness of the emergency response plans and to test communication and interaction between other federal, state and local agencies. The development of an exercise requires extensive coordination. Planning begins at least two years



prior to the exercise to give state and local emergency planning committees and US Air Force organizations enough time to

budget for it. Exercise sites are determined based on their geographical proximity to the assessed routes of movement. Seven highway exercises have been conducted under the assigned name "Serene Response." Highway exercises are required every two years. The rail plan is exercised every three years. Exercise Serene Response VII was held at the Port of Cape Canaveral in April 1999. The next highway exercise was scheduled for October 2001 but was delayed due to the events of September 11th. Both the highway and rail exercise have been combined and are scheduled for the week of March 12, 2002. Average attendance at the exercises is 200 people. The cost per exercise averages \$100,000.



The photo above could easily depict the unlucky event if both hydrazine and dinitrogen tetroxide became chemically engaged at a delivery point. The Missile Fuels CBU has managed these products for well over 30 years and there has never been an incident or accident resulting in a liquid release of product.

To provide immediate emergency response capability for what is considered Missile Fuels most



hazardous product, dinitrogen tetroxide, DESC contracts for a technical escort of each shipment. The nine-man commercial Technical Escort Team accompa-

nies all truckload shipments and is prepared to initiate emergency response and mitigation actions in the event an incident/accident occurs during transportation. The team is supported by two vehicles: a 35 foot motor home which houses the team and functions as a command post during emergencies and an equipment van housing emergency response mitigation and decontamination resources. The motor home is equipped with a satellite communications system and a fax machine. Both the motor home and the equipment van have cellular phone and CB radio capability. The motor home is also equipped with a wind measuring device, a computer system and computer software program that provides toxic cloud disbursement plotting, specifically for dinitrogen tetroxide. In the event of an accident the Team Chief acts as the Incident Commander until relieved by an Air Force representative.



The use of the Defense Transportation and Tracking System (DTTS) was another transportation initiative. The DTTS automated tracking system, which was being used exclusively for shipments of ammunition and explosives, was re-engineered to include the tracking of hazardous material.

## Missile Fuels Accomplishes the Mission

The Missile Fuels CBU accomplishes their mission without the benefit of Air Force automated systems. They have internal, home grown types of programs as management aids for standardization of the processes performed. The IM's are trained and use several computer DoD database software programs on a daily basis. They attend Product Conference and Seminars in order to interact with customers and keep up with the latest technology and commercial practices and provide product support and requirements by scanning aerospace industry periodicals and surfing the internet for solicitations in the Commerce Business Daily. They educate customers who are seeking other avenues of support of the hidden cost they may incur by acquiring product from other sources. And always follow-up with their progress. They also meet with the aerospace and fuels communities to capture their future requirements and submit bids for products they manage.

Many Missile Fuels customers require person to person confirmation when requesting support and special delivery arrangements; therefore, they phone, e-mail or fax information to the IM. Real time for some customers means delivery within 24 hours. An aborted launch doesn't always mean back to the drawing board.



It often means “get additional product here NOW!” For Missile Fuels mission, anything less than on time and complete means they have failed to support. “There has never been a delay of a launch due to any action or inaction on our part”, according to CBU director Sharon Murphy. They are meeting with both customers and suppliers in order to establish economic prices and quality product abiding by commercial practices

or Military Specifications where applicable. And, when necessary, they work with Resources Management Division to establish individual pricing for specific locations. They are currently working on developing Market Strategy to keep our customers satisfied. They are working on improving internal processes; automating forms and consolidating sales and usage reports. And, as the propulsion industry turns to alternative fuels they are working on developing new item descriptions and establishing new national stock numbers to be prepared to procure products. They are proud of the services they provide to customers and of the outstanding working relationships that have been forged over the years with both customers and suppliers. They plan to continue working toward improving internal processes to satisfy customer requirements.



By Melissa Lenard

# SUPPORTING THE WARFIGHTER

**DESC comes together as a battlefield support organization  
to assist the efforts of Operation Enduring Freedom**

**A**fter the tragic events of September 11, 2001, the United States of America began its war on terror with the Anti-Terrorism Campaign, Operation Enduring Freedom. Throughout this mission the Defense Energy Support Center (DESC) has been there to support the warfighter by providing fuel on time, in the right location and quantity. Recently, I sat down with U.S. Air Force Lt. Col. Gerald David, DESC's Chief of Contingency Plans and Operations division to see exactly how DESC is involved in supporting Operation Enduring Freedom.

**FUEL LINE:** What is DESC's role in the current mission?

**Lt. Col. David:** We are providing fuel to the warfighter. We guarantee our customers that we will find the quantity of fuel needed, provide it on time and have it delivered to the right location. We are in the hot seat providing fuel to the warfighter in places we have never been before and doing it without the traditional military fuels infrastructure. Instead of the Navy shipping the fuel to the theater and the Army taking the fuel from the Navy to the point of use, DESC is shipping the fuel and delivering it to the point of destination, with little assistance from the Army or Navy. We are excited about this evolving challenge!

**FUEL LINE:** How quickly did we respond to requests for fuel in the current mission?

**Lt. Col. David:** Immediately! A lot of people worked a lot of overtime those first 45 days following September 11<sup>th</sup>. The secret of our initial success had to be the existing direct delivery contracts and the bulk fuel that was already prepositioned for peacetime and wartime use. As

the mission expanded we sent people into the theater of operations to establish contracts and agreements. Because of their efforts, we have been very successful at rapidly providing fuel to all the in-theater forces.

**FUEL LINE:** What has been the toughest challenge for DESC?

**Lt. Col. David:** Getting fuel support in the "Stans" (Pakistan, Afghanistan, Tajikistan, Turkmenistan, Uzbekistan, Kazakhstan) region. The infrastructure needed is just not available to supply the demand for fuel in that region. That has put pressure on DESC's Into-plane division but they have done a phenomenal job finding fuel contractors that we never knew existed. They have been the key to getting fuel into the Stans region.

**FUEL LINE:** How reliable is our contracted battlefield support?

**Lt. Col. David:** We are almost at 100 percent support. The only reason we are not is because of the difficulty to get the product into the Stans region.

*Continued on page 30.....*



# BIODIESEL

**Coming to a government site near you**

**WASHINGTON, DC** - The Defense Energy Support Center (DESC) will soon make biodiesel available at 17 government sites throughout the United States. This move will streamline the federal procurement process and allow government fleets to obtain biodiesel just as easily as petroleum diesel through DESC services.

Federal government biodiesel users taking part in the program include several military bases such as Camp Lejeune Marine Corps Base in North Carolina and Miramar Marine Corps Air Station in San Diego; the National Park Service; the U.S. Postal Service in Manhattan, New York; the U.S. Department of Agriculture (USDA) National Arboretum; and the National Aeronautics & Space Administration. The U.S. military services have accepted biodiesel for use in commercial administrative vehicles only and exclude the use of biodiesel in tactical vehicles.

Under the DESC solicitation approximately 1.5 million gallons of B20 fuel (20 percent biodiesel - 80% diesel) has been procured. Both military and civilian fleets will be able to attain the B20 at various fueling sites throughout the country.

## Facts About Biodiesel



Left engine burning standard Jet A; right engine burning B20 (20 percent biodiesel and 80 percent Jet A) .

Note exhaust residue on left and right wings!

Photo Courtesy of [www.biodiesel.org](http://www.biodiesel.org)

- Biodiesel can be used in many diesel powered vehicles, usually with no modifications to the engine. It performs comparably to diesel fuel, with similar cetane and BTU content. It offers excellent lubricity and lower emissions compared to petroleum highway diesel fuel. More than 100 major fleets currently use biodiesel.
- Biodiesel is registered with the Environmental Protection Agency (EPA) as a fuel and fuel additive. It is the only alternative fuel to have passed the rigorous Health Effects testing requirements of the Clean Air Act. Results show biodiesel reduces carcinogenic air toxics by 75 - 90 percent compared to diesel.
- Biodiesel is nontoxic, biodegradable and free of sulfur.

# A NEW ERA

## DESC - Houston rebuilds and reorganizes

**O**n October 2, 2001 DESC - Houston, Texas proudly reopened its doors with a ribbon cutting ceremony to kickoff a new era and begin reorganization. In June 2001, Tropical Storm Allison caused severe flood damage to the building during the process of remodeling and ruined files, packing boxes and computers.

The ceremony was hosted by DESC - Houston Commander, U.S. Army Lieutenant Colonel Chuck Coan. He highlighted the tremendous effort put forth by DESC - Houston employees and contractors who joined in by helping remodel and restore the office following the damages Allison left behind. "The support of the staff was outstanding. Everyone pulled together to make things happen."



**Shown in Photo:** DESC-Houston office building

Through the process of remodeling additional offices spaces were acquired to accommodate new employees that have come aboard in the ongoing DESC - Americas reorganization. U.S. Army Colonel David Russell, Commander of DESC - Americas, attended the ceremony and praised the out-

standing efforts of the DESC - Houston employees. Col. Russell emphasized the importance of their newly expanded mission and encouraged them to continue on with their tradition of providing excellent fuels support in this new era for DESC Americas.

Also in attendance were representatives from the 75th Division (Training Support) U.S. Army Reserve, and the U.S. Marine Corps Recruiting Battalion, individuals from the Defense Contract Management Agency and Federal Protective Service, as well as team members from the Houston and Americas offices.



**Shown in Photo:** (left to right) Col. Russell, DESC Americas Commander, Mr. Richard Dickson, newest DESC-Houston employee and Lt. Col. Coan, Commander DESC-Houston



**Shown in Photo:** "Our Future Looks Bright" was the theme carried out in the cake for the DESC-Houston re-opening ceremony

*Continued from Page 1.....*

### Director's Message

Colonel Jack Vance, Deputy Director for Operations, has brilliantly coordinated everything from manpower rosters for DESC's longest-running 24X7 contingency team, to dispatching personnel to places in the world he can't pronounce, to integrating thousands of inputs from CINCs, DESC regions, the staff and dealing with me as well.

The DESC team is great, but without customers, our work doesn't mean much. The Services and CINCs have been a part of this team—a very important part—and we can't succeed without them. The movement of AFPET to Ft. Belvoir put two of the three Mil Deps in the building. We hope one day to see the Army here as well. Our daily and twice-daily OEF updates have brought us all together as never before, making the most difficult tasks seamless and nearly automatic. My thanks to DESC, the Service and CINC staffs that have made us successful!

*Continued from Page 27.....*

### Supporting the Warfighter

We are breaking new ground doctrinally, in an area of the world that is new to us, and that takes some effort and planning. But everyday we are finding new ways around barriers and working to reach our 100 percent goal.

**FUEL LINE:** Do you have any comments on the efforts of DESC?

**Lt. Col. David:** Where do I begin? Every area of DESC has given a tremendous effort. The Region Offices (Americas, Middle East, Pacific and Europe) have gone out of their way to meet the needs of the warfighters, often going beyond their position descriptions to ensure success. DESC as a whole, and particularly the people in the

Contingency Plans and Operations Division, have gone above and beyond the call of duty. Many hours of overtime have been put in. Everyone has volunteered time aside from his or her regular duties to come together for this mission. The people of DESC are the big story! They are the ones that make this operation, and DESC, successful.

## ***Do you have an interesting story to share?***

**We here at Fuel Line are always looking for new and exciting articles to publish in our journal. If you have always wanted to be a published author, now is your chance!!**

**The submission deadline for the Spring 2002 issue of Fuel Line will be March 4, 2002.**

**Please send all correspondence to:**

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